

# Watch, Warning, Advisory Application (WWA)

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## Watch County Notification (WCN) Users Guide

Office of Science and Technology  
Meteorological Development Laboratory  
Decision Assistance Branch



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## 1. GENERAL OVERVIEW

Beginning in AWIPS build 5.2.2.2, the Watch County Notification (WCN) functionality for semi-automatic operations between the SPC and WFO, as well as local procedures without SPC input, are available. However, before utilizing the WWA WCN functionality configuration steps are necessary - see section 2.

This document contains the necessary information to effectively carry out WCN related duties, from administrative configurations to operational steps to generate WCN products. For additional information about the WWA application go to <http://www.nws.noaa.gov/mdl/wwa> or contact MDL's customer service by referencing section 5 of this document.

### 1.1. The Watch By County (WBC) Process

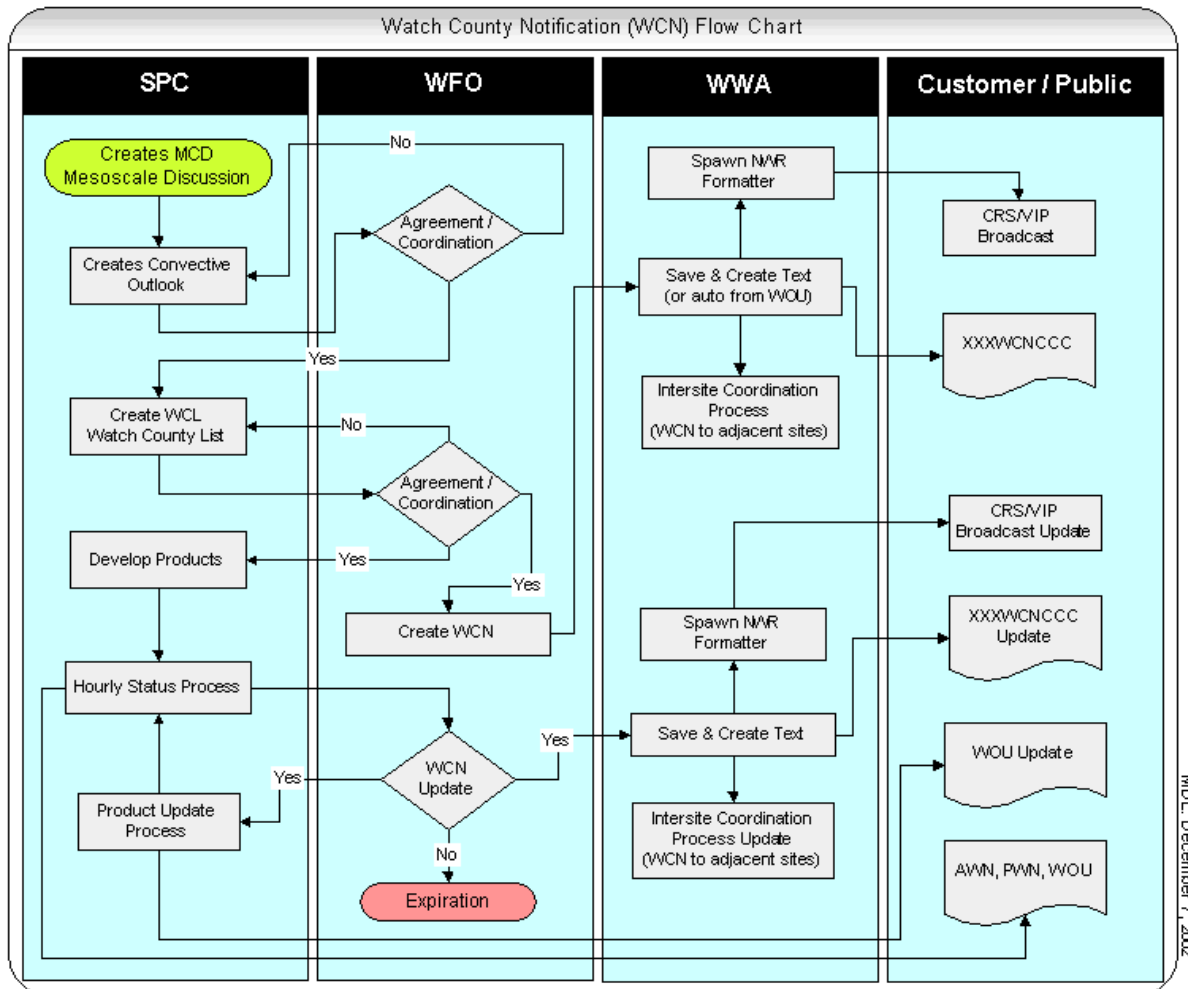
A local WCN process is dependent on how the WWA application is configured at each WFO, however generally speaking the steps in figure 1 describe this process. For more specific information about what WWA keys on when ingesting SPC WCL & WOU products reference appendix A and B.

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1. SPC issues a Watch County List (WCL) highlighting those counties intended for a watch.
  2. WWA ingest routines recognize the WCL, identifies intended sites, searches county UGC list, and presents the WCL as a proposed product in the WWA monitor for WFO's with watched counties listed.
  3. WFO/SPC coordination call.
  4. SPC issues initial Watch County Outline WOU reflecting county addition/subtractions as discussed during the WFO/SPC conference call.
  5. \*WWA ingest routines recognize SPC's initial WOU, automatically generates the WFO WCN product, and displays the WCN on the defined text workstation for forecaster dissemination.
  6. SPC disseminates hourly WOU updates based from the WFO WCN products. (Not processed by the WWA application)

*\*Step 5 automation dependent on local WFO WCN settings (Figure 3).  
Listed step is the default setting.*

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**Figure 1** - Watch By County (WBC) process between SPC and the WWA application.



**Figure 2** - Watch By County (WBC) flow chart.

## 2. CONFIGURING THE WWA APPLICATION

Steps to configure the WWA application for WCN operational use are described in this section. Some steps may reveal a correct/valid setting and some may not. Regardless of this it is strongly recommended that each step is carried out to insure an accurate configuration before going operational with the WCN. Finally, steps in this section flow sequential from section 2.1. to section 2.3. and therefore it is recommended to proceed in this order.

There are 3 basic configurations steps to check off as you go.

- ☐ Parameter settings in wouConfig.txt (2.1.)
- ☐ wwaSiteConfig settings (2.2.)
- ☐ WCN product specific parameter settings (2.3.)

## 2.1. Parameter settings in wouConfig.txt

The flat file */awips/adapt/ifps/data/wouConfig.txt* controls how the WCN will function at the local WFO. Because *wouConfig.txt* settings are site specific, amendments are necessary to address local needs. The instructions below are the required steps as well as the default settings. For *instructed* variations reference figure 3.

1. Open xterm window on lx1 or lx2.
2. Login as user ifps:  
`su -l ifps`  
`<enter password when prompted>`
3. Edit *wouConfig.txt* by typing (pico editor reference section 6):  
`pico /awips/adapt/ifps/data/wouConfig.txt`
4. Change/verify *FORMAT* is set to 1 (On):  
`FORMAT|1`
5. Change/verify *MODE* is set to 1 (Format WCN):  
`MODE|1`
6. Change/verify *SITES\_VALID* is that of the local site:  
`SITES_VALID|ALY`      **← Replace ALY with local site ID**
7. Change/verify *DISSEMINATE* is set to 0 (Off)  
`DISSEMINATE|0`
8. Change/verify *WRK\_PIL* is set to the text workstation where the generated WCN will display.  
`WRK_PIL|WRKWG#`      **← Where # is a valid workstation**
9. Save changes using these commands:  
`Ctrl-O`  
`File Name to write: wouConfig.txt <Select Enter>`
10. Exit pico editor using the accelerator function:  
`Ctrl-X`
11. Do not exit xterm and move to section 2.2 to activate the VTEC master switch.
  - If xterm inadvertently closed repeat steps 1 & 2 in this section.

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NOTE:	To modify these variables, change only their value to the right of the colon.
FORMAT:	Turn on/off formatting of the hazard. If on, ingest_wou will format based on the value of MODE, described below. Default setting is “on” and expected unless otherwise instructed.  VALID VALUE: 0 = off 1 = on
MODE:	If FORMAT is on, this defines which products the ingest_wou will format. If FORMAT is off, then recommended products will be created based on the value of MODE. Hazards can be handled in one of three way: format the SLS product, format the WCN product, and format both the SLS and WCN. Default setting is “1” and expected unless otherwise instructed.  VALID VALUES: 0 = format SLS 1 = format WCN 2 format both SLS
SITE_VALID:	Site ID as provided in SPC’s WCL (Appendix A, Bullet 4) and WOU (Appendix B,Bullet 5)
DISSEMINATE:	Turns on/off automatic dissemination of product to the public without any user review. If off, the product will be stored with the id specifies in WRK_PIL. If the FORMAT switch is off, then the product will not be disseminated to the public, even if this switch is on. Default setting is “0” and expected unless otherwise instructed.  VALID VALUES: 0 = off 1 = on
WRK_PIL:	Defines the work PIL the product will be stored under if the product is not being automatically disseminated to the public. For automatic popup use WRKWG# paradigm with the # representing the text workstation number. It is also acceptable to add another valid key name for WCN storage which bypasses the popup feature, for example PDXWRKPDX.  VALID VALUES: Any string, up to 9 characters.

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**Figure 3 - Watch County Notification (WCN) control file located at /awips/adapt/ifps/data/wouConfig.txt**

## 2.2. Editing wwaSiteConfig.txt (activating the VTEC master switch)

Before providing steps to activate the VTEC master switch it is important to understand a couple things about WWA and VTEC. First, for a VTEC string to show in a particular product the master switch must be active as well as have valid phenomenon/significance codes defined for that product, managed through the WWA setup program (see section 2.3). In other words, if the master switch is on and all products other than the WCN have blank phenomenon/significance codes, only the WCN will display a VTEC string. Second, the VTEC master switch only affects WWA and not WarnGen.

1. Edit *wwaSiteConfig.txt* by typing (pico editor reference section 6):  
`pico /awips/adapt/ifps/data/wwaSiteConfig.txt`
2. Change/verify *VTEC* is set to 1 (On):  
`VETC|1`
3. Save changes using these commands:  
`Ctrl-O`  
*File Name to write: wwaSiteConfig.txt <Select Enter>*
4. Exit pico editor using the accelerator function:  
`Ctrl-X`
5. Do not exit xterm and move to section 2.3. to define WWA WCN database parameters.
  - If xterm inadvertently closed repeat steps 1 & 2 found in section 2.1. of this document.

## 2.3. Defining WCN product specific parameters

1. Launch WWA setup interface by typing (possible 60 sec delay when executed):  
`. /awips/adapt/ifps/localbin/ifps-*.env`  
`wwa_setup -database wwa_ccc`    *◀ Where ccc is lower case site ID*
2. In the upper left listbox labeled "Watches", scroll to and double click on Severe Thunderstorm (WCN)
3. In the launched "Severe Thunderstorm (WCN)" interface, WWA-Composer section:  
 Check: **Create in Composer**
4. In the "Severe Thunderstorm (WCN)" interface, *Time Options* section, fill in the following entries:  
**Setting locally dynamic / site specific**
5. In the "Severe Thunderstorm (WCN)" interface, *Formatting Options* section, fill in the following entries:

### UGC Format:

Check: **County**

### Geography Lists:

Issuance: **cwa\_z, cwa\_c**    Clearing: **cwa\_z, cwa\_c**

Followup: **cwa\_z, cwa\_c**    Cancelling: **cwa\_z, cwa\_c**

### VTEC Codes:

Phenomenon: **SV**

Significance: **A**

### Identifiers:

Issuance: **WCN**    Clearing: **WCN**

Followup: **WCN**    Canceling: **WCN**



Headline in Product:

**Setting locally dynamic / site specific**

Check appropriate IFPS product where watch headline injection is desired.

NOAA Weather Radio:

**Setting locally dynamic / site specific**

Provided WWA NWR Template: nwr\_svrt\_wat.wwaProd

Segmented Checkbox:

**Checked / Active**

Ending Period Mentioned in ZFP?

**Not checked / Inactive**

6. Near the bottom of "Severe Thunderstorm (WCN)" interface change/verify the *Text Template File* entry is filled out as:  
**WWA\_svrt\_wat\_wcn.wwaProd**

7. Select the *Edit..* button located to the right of the *Text Template File* entry widget to launch template file editor.

8. In the provided WWA\_svrt\_wat\_wcn.preWWA editor interface customize the following settings:

MND Header: Define the site id in MND header      Where CCC is  
TTAA00 KCCC <NOW | ddhmm | gmt>&&      ← upper case site ID

Headlines: Verify provided headlines are satisfactory for local use, if not edit accordingly.

9. Save WWA\_svrt\_wat\_wcn.preWWA template file changes:  
Select **Save** button bottom left on interface.
10. Exit template file editor interface:  
Select **Quit** button bottom right on interface.
11. At the bottom of "Severe Thunderstorm (WCN)" interface change/verify *Geographical Representation* is defined as:  
Check: **County/Zone**
12. Save and exit *Severe Thunderstorm (WCN)* configuration interface:  
Select **Ok** button bottom left on interface
13. In the upper left listbox labeled "Watches", scroll to and double click on Tornado (WCN)
14. In the launched "Tornado (WCN)" interface, *WWA-Composer* section:  
Check: **Create in Composer**
15. In the "Tornado (WCN)" interface, *Time Options* section, fill in the following entries:  
**Setting locally dynamic / site specific**

16. In the "Tornado (WCN)" interface, *Formatting Options* section, fill in the following entries:

UGC Format:

Check: **County**

Geography Lists:

Issuance: **cwa\_z, cwa\_c**      Clearing: **cwa\_z, cwa\_c**  
Followup: **cwa\_z, cwa\_c**      Cancelling: **cwa\_z, cwa\_c**

VTEC Codes:

Phenomenon: **TO**  
Significance: **A**

Identifiers:

Issuance: **WCN**      Clearing: **WCN**  
Followup: **WCN**      Canceling: **WCN**

Headline in Product:

**Setting locally dynamic / site specific**  
Check appropriate IFPS product where watch headline injection is desired.

NOAA Weather Radio:

**Setting locally dynamic / site specific**

Segmented Checkbox:

**Checked / Active**

Ending Period Maintained in ZFP?

**Not checked / Inactive**

17. Near the bottom of "Tornado (WCN)" interface change/verify the *Text Template File* entry is filled out as:

**WWA\_tor\_wat\_wcn.wwaProd**

18. Select the *Edit..* button located to the right of the *Text Template File* entry widget to launch template file editor.
19. In the provided WWA\_tor\_wat\_wcn.preWWA editor interface customize the following settings:

MND Header: Define the site id in MND header      **Where CCC is**  
TTAA00 K**CCC** <NOW | ddhhmm | gmt>&&      **← upper case site ID**

Headlines: Verify provided headlines are satisfactory for local use, if not edit accordingly.

20. Save WWA\_tor\_wat\_wcn.preWWA template file changes:  
Select **Save** button bottom left on interface.
21. Exit template file editor interface:  
Select **Quit** button bottom right on interface.
22. At the bottom of "Tornado (WCN)" interface change/verify *Geographical Representation* is defined as:  
Check: **County/Zone**

23. Save and exit *Tornado (WCN)* configuration interface:  
Select **Ok** button bottom left on interface
24. Exit WWA setup interface:  
Select **File**, then **Exit** on the menu bar.
25. Login as user fxa:  
`su -l fxa`  
<enter password when prompted>
26. At the command line run WWA localization by typing:  
`cd /awips/fxa/data/localization/scripts/`  
`./mainScript.csh -wwa`
27. Exit fxa, ifps login & xterm by typing:  
`exit`  
`exit`  
`exit`

### 3. WCN BACKUP PROCEDURES

WWA does not currently support backup procedures for the WCN process. Something to be addressed at a future date.

## 4. WCN PRODUCT DEVELOPMENT

### 4.1. Create a WCN with *No* other active watches

#### 4.1.1. Create a new watch with automatic formatting: INACTIVE

<b>Description:</b>	Create new WCN for public dissemination
<b>Pre-Conditions:</b>	1) No other active watch 2) wouConfig.txt FORMAT= 0 (inactive) 3) Valid SPC WOU located in WWA-Monitor, unformatted (tan), recommended Severe Thunderstorm or Tornado watch.
<b>Event Course:</b>	<ol style="list-style-type: none"><li><b>1. Highlight the tan unformatted recommended WOU product in the WWA Monitor and select the “New..” button.</b><ul style="list-style-type: none"><li>• The “WWA Composer - New” window will appear with the Hazard Type, Begin, Duration, and Expires fields already provided based from the recommended selection.</li></ul></li><li><b>2. If necessary, modify the recommended times and choose any call to action statements from the Optional Bullets section.</b></li><li><b>3. Verify the counties highlighted in blue on the WWA-GeoViewer are correct.</b><ul style="list-style-type: none"><li>• Modify the area of concern in the GeoViewer by selecting and/or de-selecting counties if necessary.</li></ul></li><li><b>4. Click the "Save and Create Text" button in the WWA Composer window.</b><ul style="list-style-type: none"><li>• The formatted WCN watch product will replace the SPC recommended product in the WWA Monitor (tan to green)</li></ul></li><li><b>5. In the provided, edit enabled, text editor on the Text Workstation complete the AWIPS Header Block information (ie CCCWCNXXX, DEF etc...) and select the “enter” button.</b><ul style="list-style-type: none"><li>• If not automatically displayed on the Text Workstation defined in section 2.1 enter <i>WRKWG#</i> (where # is the defined workstation) into the entry box to the right of <i>AFOS_Cmd</i> on the XT text editor, select <i>Enter</i> on the keyboard, then <i>Enter Editor</i> button to edit.</li></ul></li><li><b>6. Select the “Send” button on the Text Workstation</b><ul style="list-style-type: none"><li>• Note: Do not edit the UGC line. If an extra county is in the WCN product or a county is missing or the purge time is incorrect, you must start over! If WWA is configured correctly there should be no reason to edit the generated WCN.</li></ul></li></ol>
<b>Post-Conditions:</b>	Generated WCN product changes from highlighted green (unissued) to white (issued) in the WWA Monitor. Public dissemination of WCN product.
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#### 4.1.2. Create a new watch with automatic formatting: ACTIVE

<b>Description:</b>	Create new WCN for public dissemination
<b>Pre-Conditions:</b>	1) No other active watch 2) wouConfig.txt FORMAT= 1 (active) 3) SPC issued WOU product (Severe Thunderstorm or Tornado watch)
<b>Event Course:</b>	<p><b>1. In the provided, edit enabled, text editor on the Text Workstation complete the AWIPS Header Block information (ie CCCWCNXXX, DEF) and select the “enter” button.</b></p> <ul style="list-style-type: none"> <li>• If not automatically displayed on the Text Workstation defined in section 2.1 enter <i>WRKWG#</i> (where # is the defined workstation) into the entry box to the right of <i>AFOS_Cmd</i> on the XT text editor, select <i>Enter</i> on the keyboard, then <i>Enter Editor</i> button to edit.</li> </ul> <p><b>2. Select the “Send” button on the Text Workstation</b></p> <ul style="list-style-type: none"> <li>• Note: Do not edit the UGC line. If an extra county is in the WCN product or a county is missing or the purge time is incorrect, you must start over! If WWA is configured correctly there should be no reason to edit the generated WCN.</li> </ul>
<b>Post-Conditions:</b>	Generated WCN product issued (white) in WWA Monitor. Public dissemination of WCN product.
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### 4.1.3. Clear a portion of a watch

<b>Description:</b>	Clearing a portion of a watch for public dissemination
<b>Pre-Conditions:</b>	1) No other active watch 2) A portion of the watch is cleared by SPC or you wish to clear a portion of the watch.
<b>Event Course:</b>	<ol style="list-style-type: none"> <li><b>Select the issued ( white) WCN watch in the WWA - Monitor..</b></li> <li><b>Select the "Clear" button.</b> <ul style="list-style-type: none"> <li>The “WWA Composer - Clear” window will open.</li> </ul> </li> <li><b>In the GeoViewer, select counties you wish to clear from the watch.</b> <ul style="list-style-type: none"> <li>The counties that you are clearing will be highlighted in yellow while the counties that remain in the watch will continue to be highlighted in blue.</li> </ul> </li> <li><b>In the “WWA Composer - Clear” window, select "Save and Create Text".</b> <ul style="list-style-type: none"> <li>The WCN watch product will be formatted, saved, then sent to the text workstation for dissemination.</li> </ul> </li> <li><b>In the provided, edit enabled, text editor on the Text Workstation complete the AWIPS Header Block information (ie CCCWCNXXX, DEF etc...) and select the “enter” button.</b> <ul style="list-style-type: none"> <li>If not automatically displayed on the Text Workstation defined in section 2.1 enter <i>WRKWG#</i> (where # is the defined workstation) into the entry box to the right of <i>AFOS_Cmd</i> on the XT text editor, select <i>Enter</i> on the keyboard, then <i>Enter Editor</i> button to edit.</li> </ul> </li> <li><b>Select the “Send “ button on the Text Workstation</b> <ul style="list-style-type: none"> <li>Note: Do not edit the UGC line. If an extra county is in the WCN product or a county is missing or the purge time is incorrect, you must start over! If WWA is configured correctly there should be no reason to edit the generated WCN.</li> </ul> </li> </ol>
<b>Post-Conditions:</b>	Public dissemination of WCN product
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#### 4.1.4. Cancel a watch

<b>Description:</b>	Cancelling a watch for public dissemination
<b>Pre-Conditions:</b>	1) No other active watch 2) The watch is cancelled by SPC, the watch is about to expire, or you wish to cancel the watch early.
<b>Event Course:</b>	<ol style="list-style-type: none"> <li><b>Highlight the issued (highlighted in white) watch in the WWA - Monitor.</b></li> <li><b>Select the "Cancel" button.</b> <ul style="list-style-type: none"> <li>The "WWA Composer - Cancel" window will open.</li> </ul> </li> <li><b>Check/Modify the expiration time in the Composer.</b></li> <li><b>In the WWA Composer - Cancel window, click the "Save and Create Text" button.</b> <ul style="list-style-type: none"> <li>The WCN watch product will be formatted, saved, then sent to the text workstation for dissemination.</li> </ul> </li> <li><b>In the provided, edit enabled, text editor on the Text Workstation complete the AWIPS Header Block information (ie CCCWCNXXX, DEF etc...) and select the "enter" button.</b> <ul style="list-style-type: none"> <li>If not automatically displayed on the Text Workstation defined in section 2.1 enter <i>WRKWG#</i> (where # is the defined workstation) into the entry box to the right of <i>AFOS_Cmd</i> on the XT text editor, select <i>Enter</i> on the keyboard, then <i>Enter Editor</i> button to edit.</li> </ul> </li> <li><b>Select the "Send" button on the Text Workstation</b> <ul style="list-style-type: none"> <li>Note: Do not edit the UGC line. If an extra county is in the WCN product or a county is missing or the purge time is incorrect, you must start over! If WWA is configured correctly there should be no reason to edit the generated WCN.</li> </ul> </li> </ol>
<b>Post-Conditions:</b>	Public dissemination of WCN product.
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## 4.2. Create a WCN *with* one or more active watches

### 4.2.1. Create a new watch with automatic formatting: INACTIVE

<b>Description:</b>	Creating a new WCN watch for public dissemination
<b>Pre-Conditions:</b>	1) One or more active watch 2) wouConfig.txt FORMAT= 0 (inactive) 3) Valid SPC WOU located in WWA-Monitor, unformatted (tan), recommended Severe Thunderstorm or Tornado watch.
<b>Event Course:</b>	<ol style="list-style-type: none"> <li><b>Highlight the recommended product in the WWA Monitor and select the “New..” button.</b> <ul style="list-style-type: none"> <li>The “WWA Composer - New” window will appear with the Hazard Type, Begin, Duration, and Expires fields already provided based from the recommended selection.</li> </ul> </li> <li><b>If necessary, modify the recommended times and choose any call to action statements from the Optional Bullets section.</b></li> <li><b>Verify the counties highlighted in blue on the WWA GeoViewer are correct.</b> <ul style="list-style-type: none"> <li>Modify the area of concern in the GeoViewer by selecting and/or de-selecting counties.</li> </ul> </li> <li><b>Select the “Save Only” button in the WWA Composer window and close the Composer.</b></li> <li><b>Select the new watch to unhighlight it in the WWA Monitor .</b></li> <li><b>Select the existing watch.</b> <ul style="list-style-type: none"> <li>Any watch that was not just created via the preceding five steps.</li> </ul> </li> <li><b>Click on the “Follow-up” button.</b> <ul style="list-style-type: none"> <li>A WWA “Composer - Follow-up” window will open.</li> </ul> </li> <li><b>Select the “Save Only” button and close the Composer window."</b></li> <li><b>Repeat steps 6 through 8 for each remaining &amp; issued watch that you want part of the new product.</b></li> <li><b>Highlight the unissued new watch and the other unissued existing watches in the WWA Monitor.</b></li> <li><b>Select the “Create Text” button in the WWA - Monitor.</b></li> <li><b>In the provided, edit enabled, text editor on the Text Workstation complete the AWIPS Header Block information (ie CCCWCNXXX, DEF etc...) and select the “enter” button.</b> <ul style="list-style-type: none"> <li>If not automatically displayed on the Text Workstation defined in section 2.1 enter <i>WRKWG#</i> (where # is the defined workstation) into the entry box to the right of <i>AFOS_Cmd</i> on the XT text editor, select <i>Enter</i> on the keyboard, then <i>Enter Editor</i> button to edit.</li> </ul> </li> <li><b>Select the “Send” button on the Text Workstation</b> <ul style="list-style-type: none"> <li>Note: Do not edit the UGC line. If an extra county is in the WCN product or a county is missing or the purge time is incorrect, you must start over! If WWA is configured correctly there should be no reason to edit the generated WCN.</li> </ul> </li> </ol>
<b>Post-Conditions:</b>	Public dissemination of WCN
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## 4.2.2.

**Create a new watch, *no* county overlap, with automatic formatting: ACTIVE**

<b>Description:</b>	Create new WCN for public dissemination
<b>Pre-Conditions:</b>	<ol style="list-style-type: none"> <li>1) One or more active watch</li> <li>2) wouConfig.txt FORMAT= 1 (active)</li> <li>3) SPC issued WOU product (Severe Thunderstorm or Tornado watch).</li> <li>4) <i>No</i> county overlap with current active watch &amp; new SPC issued WOU</li> <li>5) Unissued WCN located in WWA-Monitor, formatted (green), Severe thunderstorm or Tornado watch</li> <li>6) Do not use WCN text automatically formatted on the text workstation.</li> </ol>
<b>Event Course:</b>	<ol style="list-style-type: none"> <li>1. <b>Close the formatted/generated WCN product automatically displayed on the text workstation, created from SPC's new WOU.</b> <ul style="list-style-type: none"> <li>• This will be in edit mode in the XT editor. If not open then skip this step.</li> </ul> </li> <li>2. <b>Highlight the active &amp; issued WCN (white) product in the WWA Monitor and then select the "Follow-up" button.</b> <ul style="list-style-type: none"> <li>• WWA Composer will open. Adjust any times if necessary.</li> </ul> </li> <li>3. <b>Select the "Save Only" button on the WWA Composer.</b></li> <li>4. <b>Close the WWA composer by selecting the "Close" button.</b> <ul style="list-style-type: none"> <li>• Product should change color from white to tan.</li> </ul> </li> <li>5. <b>Repeat steps 2 through 4 for all active watches in CWA.</b></li> <li>6. <b>Highlight the tan (follow-up WCN) and highlight the recently generated "green" (New SPC watch) product in the WWA Monitor and then select the "Create Text" button.</b> <ul style="list-style-type: none"> <li>• Select all follow-up WCN segments (tan) in the case of more than one active watch to collect each segment.</li> </ul> </li> <li>7. <b>In the provided, edit enabled, text editor on the Text Workstation complete the AWIPS Header Block information (ie CCCWCNXXX, DEF etc...) and select the "enter" button.</b> <ul style="list-style-type: none"> <li>• If not automatically displayed on the Text Workstation defined in section 2.1 enter <i>WRK WG#</i> (where # is the defined workstation) into the entry box to the right of <i>AFOS_Cmd</i> on the XT text editor, select <i>Enter</i> on the keyboard, then <i>Enter Editor</i> button to edit.</li> </ul> </li> <li>8. <b>Select the "Send" button on the Text Workstation.</b> <ul style="list-style-type: none"> <li>• Note: Do not edit the UGC line. If an extra county is in the WCN product or a county is missing or the purge time is incorrect, you must start over! If WWA is configured correctly there should be no reason to edit the generated WCN.</li> </ul> </li> </ol>
<b>Post-Conditions:</b>	Public dissemination of one WCN (combination of all issued WCNs)
	Page 1 of 1

## 4.2.3.

**Create a new watch, *with* county overlap and automatic formatting: ACTIVE**

<b>Description:</b>	Create new WCN for public dissemination
<b>Pre-Conditions:</b>	<ol style="list-style-type: none"> <li>1) One or more active watch</li> <li>2) wouConfig.txt FORMAT= 1 (active)</li> <li>3) SPC issued WOU product (Severe Thunderstorm or Tornado watch).</li> <li>4) <i>With</i> county overlap with current active watch &amp; new SPC issued WOU</li> <li>5) Unissued WCN located in WWA-Monitor, formatted (green), Severe thunderstorm or Tornado watch</li> <li>6) Do not use WCN text automatically formatted on the text workstation.</li> </ol>
<b>Event Course:</b>	<ol style="list-style-type: none"> <li>1. <b>Close the formatted/generated WCN product automatically displayed on the text workstation, created from SPC's new WOU.</b> <ul style="list-style-type: none"> <li>• This will be in edit mode in the XT editor. If not open then skip this step.</li> </ul> </li> <li>2. <b>Highlight the active &amp; issued WCN (white) product in the WWA Monitor and then select the “Clear” button.</b> <ul style="list-style-type: none"> <li>• WWA Composer will open. Adjust any times if necessary.</li> </ul> </li> <li>3. <b>Deselect the overlapping counties from the WWA-GeoViewer.</b></li> <li>3. <b>Select the “Save Only” button on the WWA Composer.</b></li> <li>4. <b>Close the WWA composer by selecting the “Close” button.</b> <ul style="list-style-type: none"> <li>• Product should change color from white to tan.</li> </ul> </li> <li>5. <b>Repeat steps 2 through 4 for all active watches in CWA.</b></li> <li>6. <b>Highlight the tan (cleared WCN) and highlight the recently generated “green” (New SPC watch) product in the WWA Monitor and then select the “Create Text” button.</b> <ul style="list-style-type: none"> <li>• Select all cleared WCN segments (tan) in the case of more than one active watch to collect each segment.</li> </ul> </li> <li>7. <b>In the provided, edit enabled, text editor on the Text Workstation complete the AWIPS Header Block information (ie CCCWCNXXX, DEF etc...) and select the “enter” button.</b> <ul style="list-style-type: none"> <li>• If not automatically displayed on the Text Workstation defined in section 2.1 enter <i>WRKWG#</i> (where # is the defined workstation) into the entry box to the right of <i>AFOS_Cmd</i> on the XT text editor, select <i>Enter</i> on the keyboard, then <i>Enter Editor</i> button to edit.</li> </ul> </li> <li>8. <b>Select the “Send” button on the Text Workstation.</b> <ul style="list-style-type: none"> <li>• Note: Do not edit the UGC line. If an extra county is in the WCN product or a county is missing or the purge time is incorrect, you must start over! If WWA is configured correctly there should be no reason to edit the generated WCN.</li> </ul> </li> </ol>
<b>Post-Conditions:</b>	Public dissemination of one WCN (combination of all issued WCNs)
	Page 1 of 1

#### 4.2.4. Clear a portion of the watch

<b>Description:</b>	Clearing a portion of the watch for public dissemination
<b>Pre-Conditions:</b>	1) One or more active watch 2) A portion of the watch is cleared by SPC or you wish to clear a portion of the watch.
<b>Event Course:</b>	<ol style="list-style-type: none"> <li><b>Highlight the issued watch in the WWA Monitor..</b></li> <li><b>Select the "Clear" button.</b> <ul style="list-style-type: none"> <li>The “WWA Composer - Clear” window will open.</li> </ul> </li> <li><b>Check over the information in the Composer, make changes where needed.</b></li> <li><b>In the GeoViewer, select the counties you wish to clear from the watch.</b> <ul style="list-style-type: none"> <li>Counties that you are clearing will be highlighted in yellow while the counties that remain in the watch will continue to be highlighted in blue.</li> </ul> </li> <li><b>In the WWA Composer - Clear window, click the "Save Only" button and close the Composer .</b></li> <li><b>Select the existing watch.</b> <ul style="list-style-type: none"> <li>Any watch that has not been cleared via the five preceding steps.</li> </ul> </li> <li><b>Click on the "Follow-up" button.</b> <ul style="list-style-type: none"> <li>A WWA “Composer - Follow-up” window will open.</li> </ul> </li> <li><b>Select the "Save Only" button and close the Composer window."</b></li> <li><b>Repeat steps 6 through 8 for each remaining &amp; issued watch that you want part of the new product.</b></li> <li><b>Highlight the unissued cleared watch and the other unissued followed up watches in the WWA Monitor.</b></li> <li><b>Click on the "Create Text" button.</b></li> <li><b>In the provided, edit enabled, text editor on the Text Workstation complete the AWIPS Header Block information (ie CCCWCNXXX, DEF etc...) and select the “enter” button.</b> <ul style="list-style-type: none"> <li>If not automatically dispalyed on the Text Workstation defined in section 2.1 enter <i>WRKWG#</i> (where # is the defined workstation) into the entry box to the right of <i>AFOS_Cmd</i> on the XT text editor, select <i>Enter</i> on the keyboard, then <i>Enter Editor</i> button to edit.</li> </ul> </li> <li><b>Select the “Send” button on the Text Workstation</b> <ul style="list-style-type: none"> <li>Note: Do not edit the UGC line. If an extra county is in the WCN product or a county is missing or the purge time is incorrect, you must start over! If WWA is configured correctly there should be no reason to edit the generated WCN.</li> </ul> </li> </ol>
<b>Post-Conditions:</b>	Public dissemination of updated WCN
	Page 1 of 1

## 4.2.5.

## Cancel a watch

<b>Description:</b>	Cancelling a watch for public dissemination.
<b>Pre-Conditions:</b>	<ol style="list-style-type: none"> <li>1) One or more active watch</li> <li>2) The watch is cancelled by SPC, the watch is about to expire, or you wish to cancel the watch early.</li> </ol>
<b>Event Course:</b>	<ol style="list-style-type: none"> <li>1. In the WWA Monitor, select the issued watch you want to cancel.</li> <li>2. Select the "<b>Cancel</b>" button. <ul style="list-style-type: none"> <li>• A "WWA Composer - Cancel" window will open.</li> </ul> </li> <li>3. Check over the information in the WWA Composer - Cancel window and adjust where necessary.</li> <li>4. In the WWA Composer - Cancel window, select the "<b>Save Only</b>" button.</li> <li>5. Close the WWA Composer - Cancel window.</li> <li>6. Select the existing watch. <ul style="list-style-type: none"> <li>• Any watch that has not been cancelled via the five preceding steps.</li> </ul> </li> <li>7. Click on the "<b>Follow-up</b>" button. <ul style="list-style-type: none"> <li>• A WWA "Composer - Follow-up" window will open.</li> </ul> </li> <li>8. Select the "<b>Save Only</b>" button and close the Composer window.</li> <li>9. Repeat steps 6 through 8 for each remaining &amp; issued watch that you want part of the new product.</li> <li>10. Highlight the unissued cancelled watch and the other unissued followed up watches in the WWA - Monitor.</li> <li>11. Click on the "<b>Create Text</b>" button.</li> <li>12. In the provided, edit enabled, text editor on the Text Workstation complete the AWIPS Header Block information (ie CCCWCNXXX, DEF etc...) and select the "enter" button. <ul style="list-style-type: none"> <li>• If not automatically displayed on the Text Workstation defined in section 2.1 enter <i>WRKWG#</i> (where # is the defined workstation) into the entry box to the right of <i>AFOS_Cmd</i> on the XT text editor, select <i>Enter</i> on the keyboard, then <i>Enter Editor</i> button to edit.</li> </ul> </li> <li>13. Select the "<b>Send</b>" button on the Text Workstation <ul style="list-style-type: none"> <li>• Note: Do not edit the UGC line. If an extra county is in the WCN product or a county is missing or the purge time is incorrect, you must start over! If WWA is configured correctly there should be no reason to edit the generated WCN.</li> </ul> </li> </ol>
<b>Post-Conditions:</b>	Public dissemination of cancelled watch product
	Page 1 of 1

### 4.3. Cancel multiple watches

<b>Description:</b>	Cancelling multiple watches for public dissemination
<b>Pre-Conditions:</b>	More than one watch is cancelled by SPC, more than one watch is about to expire, or you wish to cancel more than one watch early.
<b>Event Course:</b>	<ol style="list-style-type: none"> <li><b>In the WWA Monitor, select the issued watch you want to cancel.</b></li> <li><b>Select the "Cancel" button.</b> <ul style="list-style-type: none"> <li>A “WWA Composer - Cancel” window will open.</li> </ul> </li> <li><b>Check over the information in the WWA Composer - Cancel window and adjust where needed.</b></li> <li><b>In the WWA Composer - Cancel window, select the "Save Only" button.</b></li> <li><b>Close the WWA Composer - Cancel window.</b></li> <li><b>Repeat the previous steps until all the watches you want to cancel have been saved to the WWA Monitor.</b></li> <li><b>Select the existing watch.</b> <ul style="list-style-type: none"> <li>Any watch that has not been cancelled via the six preceding steps.</li> </ul> </li> <li><b>Click on the "Follow-up" button.</b> <ul style="list-style-type: none"> <li>A WWA “Composer - Follow-up” window will open.</li> </ul> </li> <li><b>Select the "Save Only" button and close the Composer window."</b></li> <li><b>Repeat steps 7 through 9 for each remaining issued watch that you want to be a part of the product.</b></li> <li><b>Highlight the unissued cancelled watch and the other unissued followed up watches in the WWA Monitor.</b></li> <li><b>Click on the "Create Text" button.</b></li> <li><b>In the provided, edit enabled, text editor on the Text Workstation complete the AWIPS Header Block information (ie CCCWCNXXX, DEF etc...) and select the “enter” button.</b> <ul style="list-style-type: none"> <li>If not automatically displayed on the Text Workstation defined in section 2.1 enter <i>WRKWG#</i> (where # is the defined workstation) into the entry box to the right of <i>AFOS_Cmd</i> on the XT text editor, select <i>Enter</i> on the keyboard, then <i>Enter Editor</i> button to edit.</li> </ul> </li> <li><b>Select the “Send” button on the Text Workstation</b> <ul style="list-style-type: none"> <li>Note: Do not edit the UGC line. If an extra county is in the WCN product or a county is missing or the purge time is incorrect, you must start over! If WWA is configured correctly there should be no reason to edit the generated WCN.</li> </ul> </li> </ol>
<b>Post-Conditions:</b>	Public dissemination of cancelled watch product.
	Page 1 of 1

## 5. LOCAL WCN TESTING

Although SPC issues WCL and WOU products to semi-automatically generate the WCN product through the WWA application, it is possible to test this automation locally at the WFO.

The instructions provided below describe steps to simulate the arrival of an SPC WCL and WOU product, not based from an existing WCL/WOU in the local Informix database. Once performed, WCL/WOU storage into the local WFO AWIPS database, reference section 3.0 of this document to follow through on generating the WCN. Another way to simulate SPC issued WCL/WOU products is to; edit, update fields described in appendix A or B, and save **LOCALLY (000)**, from the AWIPS text workstation text editor.

Finally, it is assumed before any simulation is conducted the local WWA application is configured correctly - see section 2. Be extra cautious when performing steps that store a simulated WCL, WOU, and WCN product into the Informix database. If during this test the router information is not locally set, "000" or "CCC", you will disseminate publicly.

### 5.1. Simulating the SPC's WCL locally at the WFO

1. Launch the WWA application on lx1 or lx2.
  - Use provided desktop menu option
2. Open xterm window on the same Linux box (lx1 or lx2)
  - if done as awipsusr go to step number 4.
3. Login as user awipsusr:  
`su -l awipsusr`  
`<enter awipsusr password when prompted>`
4. Change into /awips directory:  
`cd /awips`
5. Edit a local "WCL" file(pico editor reference section 6):  
`pico WCL#` ⬅ Enter # A-J
6. In the pico editor window type in the following, adjusting for the local site (ie...county names/UGC). The idea is to create a product similar to what is shown in appendix A:  
  

Line	1	type:	NWUS64 KWNS	<u>101250</u>	<span style="color: red;">⬅ Enter current date &amp; time</span>
Line	2	type:	WCLA	LOC	<span style="color: red;">⬅ Where WCL is A-J</span>
Line	3	:	----- Blank Line -----		
Line	4	type:	.TORNADO WATCH <u>A</u> <span style="color: red;">⬅ A-J as in line 2</span>		
Line	5	type:	COORDINATION COUNTY LIST FROM THE NWS STORM PREDICTION		
Line	6	type:	CENTER	EFFECTIVE UNTIL	2300 UTC <span style="color: red;">⬅ Enter valid time</span>
Line	7	type:	----- Blank Line -----		
Line	8	type:	MIC005-015-045-065-102300- <span style="color: red;">⬅ Enter a site valid UGC &amp; valid time</span>		
Line	9	type:	----- Blank Line -----		
Line	8	type:	MI		<span style="color: red;">⬅ Enter valid 2 character state ID</span>

```

Line 14 type: . MICHIGAN COUNTIES INCLUDED ARE << Enter valid state name
Line 15      : ----- Blank Line -----
Line 16 type: ALLEGAN      BARRY      EATON << Enter equivalent counties defined
Line 17 type: INGHAM
Line 18 type: $$
Line 19      : ----- Blank Line -----
Line 20 type: ATTN...WFO...GRR... << Enter site as defined in section 2.1 #6

```

7. Save changes using these commands:  
     **Ctrl-O**  
     File Name to write: WCL# <Select Enter> << # given in step 5
8. Exit pico editor using the accelerator function:  
     **Ctrl-X**
9. Store created WOU# file locally into AWIPS Informix database:  
     **textdb -w WCL# < WCL#**      << # given in step 5
10. Exit xterm window:  
     **exit**
11. Check WWA Monitor for ingested WCL
  - If not in the monitor, verify correct settings provided in step 6 and also reference appendix A to insure trigger/key locations are defined accurately.

## 5.2. Simulating the SPC's WOU locally at the WFO

1. Launch the WWA application on lx1 or lx2
  - Use provided desktop menu option
2. Open Xterm window on lx1 or lx2
  - if done as awipsusr go to step number 3.
3. Login as user awipsusr:  
     **su -l awipsusr**  
     <enter awips password when prompted>
4. Change into /awips directory:  
     **cd /awips**
5. Edit a local "WOU" file(pico editor reference section 6):  
     **pico WOU#** << Enter # 0-9
6. In the pico editor window type in the following, adjusting for the local site (ie...county names/UGC). The idea is to create a product similar to what is shown in Appendix B:

```

Line 1 type: WOUS64 KWNS 101250 << Enter current date & time
Line 2 type: WOU1 LOC
Line 3 type: ----- Blank Line -----
Line 4 type: TORNADO WATCH OUTLINE UPDATE FOR WT 1002
Line 5 type: STORM PREDICTION CENTER NORMAN OK

```

```

Line 6 type: 0130 AM EDT TUE JUL 10 2003  ␣ Enter current
Line 7      : ----- Blank Line -----
Line 8 type: TORNADO WATCH 1002 REMAINS IN EFFECT UNTIL
Line 9 type: 7:00 PM EDT FOR THE FOLLOWING LOCATIONS:  ␣ Enter time & zone.
Line 10     : ----- Blank Line -----
Line 11 type: MIC005-015-045-065-102300-  ␣ Enter a site valid UGC & valid time
Line 12     : ----- Blank Line -----
Line 13 type: MI                               ␣ Enter valid 2 character state ID
Line 14 type: . MICHIGAN COUNTIES INCLUDED ARE  ␣ Enter valid state name
Line 15     : ----- Blank Line -----
Line 16 type: ALLEGAN          BARRY          EATON  ␣ Enter Counties defined in
Line 17 type: INGHAM                                     UGC line #11.
Line 18 type: $$
Line 19     : ----- Blank Line -----
Line 20 type: ATTN...WFO...GRR...  ␣ Enter site as defined in section 2.1 #6

```

7. Save changes using these commands:

**Ctrl-O**

*File Name to write: WOU# <Select Enter> ␣ # given in step 5*

8. Exit pico editor using the accelerator function:

**Ctrl-X**

9. Store created WOU# file into AWIPS Informix database:

**textdb -w WOU# < WOU#** ␣ # given in step 5

10. Exit xterm window:

**exit**

11. Based on the default settings described in section 2.1. The WCN will be generated, then displayed on the defined text workstation.

- If not displayed, verify correct settings provided in step 6 and also reference appendix B to insure trigger/key locations are defined accurately.

## 6. MDL CONTACT INFORMATION

### MDL Customer Service:

Telephone Number:	Iris Boon (301) 713-0224 extension 145
E-Mail Address:	<a href="mailto:Iris.Boon@noaa.gov">Iris.Boon@noaa.gov</a>
Mailing Address:	1325 East West Highway (OST23-10310) Silver Spring, Maryland 20910

### WWA Program Manager:

Telephone Number:	Mark McInerney (301) 713-1774 extension 180
E-Mail Address:	<a href="mailto:Mark.Mcinerney@noaa.gov">Mark.Mcinerney@noaa.gov</a>
Mailing Address:	1325 East West Highway (OST23-10344) Silver Spring, Maryland 20910



## 7. **ADDITIONAL AND RELATED MATERIAL**

- Office of Climate, Water, & Weather Services (OCWWS) Documents:  
VTEC: <http://www.nws.noaa.gov/om/vtec/vtec.pdf>  
WCN format requirements: <http://www.nws.noaa.gov/mdl/wwa/docs/WBCFormatReqFinal.pdf>
- Meteorological Development Laboratory (MDL):  
WWA Web page: <http://www.nws.noaa.gov/mdl/wwa>
- Linux Reference:  
Pico Editor: <http://www.uic.edu/depts/accc/software/pine/pico.html>
- AWIPS System References:  
Data Management: <http://www.nws.noaa.gov/datamgmt/index.html>  
a2a Cross Reference: <http://www.nws.noaa.gov/datamgmt/a2a/a2a.html>

## Appendix A

This appendix serves as a reference to key locations parsed in the SPC WCL product, by the WWA WCL ingest routine. The fields highlighted in figure 4 are searched to gather information by this routine and if missing or outside the expected format will cause the process to malfunction. This has been coordinated through the development process between SPC and MDL.

NWUS64 KWNS 261705  
WCLA

①.TORNADO WATCH A

COORDINATION COUNTY LIST FROM THE NWS STORM PREDICTION CENTER EFFECTIVE UNTIL ②0100 UTC.

③ARC013-019-025-027-029-033-039-045-047-051-053-057-059-061-073-081-083-085-091-097-099-103-105-109-113-115-119-125-127-131-133-139-149-270100-

AR  
. ARKANSAS COUNTIES INCLUDED ARE  
  
BRADLEY  
CLEVELAND  
DALLAS  
GRANT  
HOWARD  
LITTLE RIVER  
MILLER  
OUACHITA  
POLK  
SCOTT  
UNION  
\$\$  
  
③LAC013-015-017-027-031-081-119-270100-  
  
LA  
. LOUISIANA PARISHES INCLUDED ARE  
  
BIENVILLE  
CLAIBORNE  
WEBSTER  
\$\$  
  
③TXC037-063-067-183-203-315-365-459-270100-  
  
TX  
. TEXAS COUNTIES INCLUDED ARE  
  
BOWIE  
HARRISON  
UPSHUR  
\$\$  
  
④ATTN... WFO...SHV...FTW...LZK...

① TORNADO WATCH A or SEVERE THUNDERSTORM WATCH A- are searched to determine the watch type.  
- The letter, "A" in this example can range from A to J, but must be there for the ingest routines to work correctly.

② UTC Time - Must be future time.

③ UGC & Expiration Field - UGC data for offices defined in section 2.1. #6.  
- This information is broken down by state as shown in the example.  
- The expiration time/date must be later than the issuance time/date, #3 of this figure.  
- The UGC format expected is:  
- Two char state id  
- Followed by a C for county  
- Followed by a numeric list of county codes  
- The Time/Date format expected is:  
- Two digit numeric day  
- Followed by four digit numeric time field  
- Always ending with a dash, "-"  
- or ddhmm-

④ ATTN...WFO... - followed by at least one WFO site id as defined in section 2.1. #6 of this document. WWA will ingest any WCL listed in this line that matches the sites defined in the wouConfig.txt (section 2.1. #6)

Figure 4 - SPC WCL product example with highlighted WWA key locations.

## Appendix B

This appendix serves as a reference to key locations parsed in the SPC WOU product, by the WWA WOU ingest routine. The fields highlighted in figure 4 are searched to gather information by this routine and if missing or outside the expected format will cause the process to malfunction. This has been coordinated through the development process between SPC and MDL.

WOUS64 KWNS 261750  
WOU1

**1** **TORNADO** WATCH OUTLINE UPDATE FOR **2** **WT 1002**  
NWS STORM PREDICTION CENTER NORMAN OK  
**3** **1250 PM CDT SUN MAY 26 2001**

TORNADO WATCH 1002 IS IN EFFECT UNTIL 8:00 PM CDT FOR THE FOLLOWING LOCATIONS:

**4** **ARC013-019-025-027-029-033-039-045-047-051-053-057-059-061-073-081-083-085-091-097-099-103-105-109-113-115-119-125-127-131-133-139-149-270100-**

AR  
. ARKANSAS COUNTIES INCLUDED ARE

CALHOUN	CLARK	CLEVELAND
COLUMBIA	CONWAY	CRAWFORD
DALLAS	FAULKNER	FRANKLIN
GARLAND	GRANT	HEMPSTEAD
HOT SPRING	HOWARD	LAFAYETTE
LITTLE RIVER	LOGAN	LONOKE
MILLER	MONTGOMERY	NEVADA
OUACHITA	PERRY	PIKE
POLK	POPE	PULASKI
SALINE	SCOTT	SEBASTIAN
SEVIER	UNION	YELL

\$\$

**4** **LAC013-015-017-027-031-081-119-270100-**

LA  
. LOUISIANA PARISHES INCLUDED ARE

BIENVILLE	BOSSIER	CADDO
CLAIBORNE	DE SOTO	RED RIVER
WEBSTER		

\$\$

**4** **TXC037-063-067-183-203-315-365-459-270100-**

TX  
. TEXAS COUNTIES INCLUDED ARE

BOWIE	CAMP	CASS
GREGG	HARRISON	MARION
MORRIS	PAYOLA	UPSHUR

\$\$

**5** **ATTN...WFO...SHV...FTW...LZK...**

**1** **TORNADO or SEVERE THUNDERSTORM** - are searched to determine the watch type.

**2** **WT # or WS #** - are searched for to retrieve the SPC managed watch number used in the WCN product which also includes the VTEC ETN.

**3** **Time/Date Line** - Must be current and be an earlier time than found in the expiration field, #4 in this figure.

**4** **UGC & Expiration Fields** - UGC data for offices defined in section 2.1. #6.

- This information is broken down by state as shown in the example.
- The expiration time/date must be later than the issuance time/date, #4 in this figure.
- The UGC format expected is:
  - Two char state id
  - Followed by a C for county
  - Followed by a numeric list of county codes
- The Time/Date format expected is:
  - Two digit numeric day
  - Followed by four digit numeric time field
  - Always ending with a dash, "-"
  - or *ddhhmm-*

**5** **ATTN...WFO...** - followed by at least one WFO site id as defined in section 2.1. #6 of this document. WWA will ingest any WCL listed in this line that matches the sites defined in the wouConfig.txt (section 2.1. #6)

Figure 5 - SPC WOU product example with highlighted WWA key locations.

## Appendix C

This appendix provides a WMO header reference to determine the correct WMO ID when defining locally testing the WCL & WOU interactions with WWA in section 5.1. & 5.2, step 6, line 1. Checking updates to this information can be done by referencing:

<http://www.nws.noaa.gov/datamgmt/a2a/a2a.html>

ABQWCNABQ WWUS65 KABQ	GTFWCNGTF WWUS65 KTFX	PHXWCNFGZ WWUS65 KFGZ
ALBWCNALLY WWUS61 KALY	GTFWCNMSO WWUS65 KMSO	PHXWCNPHX WWUS65 KPSR
ALBWCNBGM WWUS61 KBGM	GTFWCNTFX WWUS65 KTFX	PHXWCNPSR WWUS65 KPSR
ALBWCNBTB WWUS61 KBTB	HUNWCNHUN WWUS64 KHUN	PHXWCNTWC WWUS65 KTW
ARBWCNAPN WWUS63 KAPX	INDWCNFWA WWUS63 KIWX	PITWCNPBZ WWUS61 KPBZ
ARBWCNAPX WWUS63 KAPX	INDWCNIND WWUS63 KIND	PWMWCNCAR WWUS61 KCAR
ARBWCNDTX WWUS63 KDTX	JANWCNJAN WWUS64 KJAN	PWMWCNGYX WWUS61 KGYX
ARBWCNGRR WWUS63 KGRR	LAXWCNLAX WWUS66 KLOX	RDUWCNILM WWUS62 KILM
ATLWCNATL WWUS62 KFFC	LAXWCNLOX WWUS66 KLOX	RDUWCNMHX WWUS62 KMHX
BHMWCNBHM WWUS64 KBMX	LAXWCNSGX WWUS66 KSGX	RDUWCNRAH WWUS62 KRAH
BISWCNBIS WWUS63 KBIS	LBBWCNAMA WWUS64 KAMA	RNOWCNLKN WWUS65 KLKN
BISWCNFAR WWUS63 KFGF	LBBWCNEPZ WWUS64 KEPZ	RNOWCNREV WWUS65 KREV
BISWCNFGF WWUS63 KFGF	LBBWCNLBB WWUS64 KLUB	RNOWCNRNO WWUS65 KREV
BISWCNISN WWUS63 KBIS	LBBWCNMAF WWUS64 KMAF	RNOWCNVEF WWUS65 KVEF
BOIWCNBOI WWUS65 KBOI	LBBWCNSJT WWUS64 KSJT	SATWCNCRP WWUS64 KCRP
BOIWCNPIH WWUS65 KPIH	LITWCNLIT WWUS64 KLZK	SATWCNHGX WWUS64 KHGX
BOSWCNBOX WWUS61 KBOX	MEMWCNOHX WWUS64 KOHX	SDFWCNJKL WWUS63 KJKL
BUFWCNBUF WWUS61 KBUF	MIAWCNEYW WWUS62 KEYW	SDFWCNPAH WWUS63 KPAH
CAEWCNCAE WWUS62 KCAE	MIAWCNJAX WWUS62 KJAX	SDFWCNSDF WWUS63 KLMK
CAEWCNCHS WWUS62 KCHS	MIAWCNTAE WWUS62 KTAE	SEAWCNOTX WWUS66 KOTX
CAEWCNGSP WWUS62 KGSP	MIAWCNTBW WWUS62 KTBW	SEAWCNSEA WWUS66 KSEW
CHIWCNCHI WWUS63 KLOT	MKEWCNARX WWUS63 KARX	SEAWCNSEW WWUS66 KSEW
CHIWCNDVN WWUS63 KDVN	MKEWCNGBB WWUS63 KGRB	SFOWCNEKA WWUS66 KEKA
CHIWCNKLX WWUS63 KILX	MKEWCNLSE WWUS63 KARX	SFOWCNHIX WWUS66 KHIX
CLEWCNCLE WWUS61 KCLE	MKEWCNMKE WWUS63 KMKX	SFOWCNSFO WWUS66 KMTR
CLEWCNILN WWUS61 KILN	MSPWCNDLH WWUS63 KDLH	SFOWCNSTO WWUS66 KSTO
CRWWCNRLX WWUS61 KRLX	MSPWCNRST WWUS63 KMPX	SJUWCNSJU WWCA62 TJSJ
CYSWCNCYS WWUS65 KCYS	NYCWCNOKX WWUS61 KOKX	SLCWCNSLC WWUS65 KSLC
CYSWCNRIW WWUS65 KRIW	OKCWCNOKC WWUS64 KOUN	STLWCNEAX WWUS63 KEAX
DENWCNDEN WWUS65 KBOU	OKCWCNTSA WWUS64 KTSA	STLWCNMC I WWUS63 KEAX
DENWCNGJT WWUS65 KGJT	OMAWCNGID WWUS63 KGID	STLWCNSGF WWUS63 KSGF
DENWCNPUB WWUS65 KPUB	OMAWCNGRI WWUS63 KGID	STLWCNSTL WWUS63 KLSX
DSMWCNALO WWUS63 KDMX	OMAWCNLBF WWUS63 KLB	TOPWCNDDC WWUS63 KDDC
FSDWCNABR WWUS63 KABR	OMAWCNOMA WWUS63 KOAX	TOPWCNGLD WWUS63 KGLD
FSDWCNFS	PDXWCNPDT WWUS66 KPDT	TOPWCNICT WWUS63 KICT
FSDWCNRAP WWUS63 KUNR	PDXWCNPDX WWUS66 KPQR	TOPWCNTOP WWUS63 KTOP
FTWWCNFTW WWUS64 KFWD	PDXWCNPQR WWUS66 KPQR	WBCWCNAKQ WWUS61 KAKQ
GTFWCNBYZ WWUS65 KBYZ	PHLWCNCTP WWUS61 KCTP	WBCWCNLWX WWUS61 KLWX
GTFWCNGGW WWUS65 KGGW	PHLWCNPHI WWUS61 KPHI	WBCWCNRNK WWUS61 KRN

Figure 6 - WCN AWIPS afos2awips.txt Reference (WCN Products Only)